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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,574	10/28/2007	John G. Hildebrand	CCPC 0122 PUSA3	3032
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1000 TOWN CENTER			CHEN, CAI Y	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/597,574	HILDEBRAND ET AL.				
Office Action Summary	Examiner	Art Unit				
	CAI CHEN	2425				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 10 No	ovember 2009					
	action is non-final.					
<u> </u>	<i>7</i> —					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>3-15 and 29-34</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>3-15 and 29-34</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<u> </u>	priority under 35 LLS C & 110(a)	-(d) or (f)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 3-15, and 29-34 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 3-5, 13-15, 29, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dureau in view of Chen (US 2005/002253 A1) and further in view of Brooks (US 6,981,045 B1)

Regarding claim 3, Dureau discloses a method of transcoding dissimilar payloads carried in a first transport stream (abstract, para. 35), the method comprising:

demultiplexing the first transport stream to recover first and second payloads (para. 34-35, and 39, service provider to transport the content data contains HTML data, MPEG 1 data, MPEG 2 data, and MPEG 4 data are being demultiplexed at the set top box, first payload refers to MPEG 2, second payload refers to MPEG 4 data);

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transcoding the second payload to a protocol associated with the first payload if a protocol associated with the second payload is dissimilar from the protocol associated with the first payload (Fig. 4-6, abstract, para. 32-33, para. 35-38, para. 43-44, para. 47, the MPEG 4 data payload is transcoded into MPEG 2 data format for compatibility and where MPEG 2 refers as first payload, and MPEG 4 is second payload);

Dureau does not explicitly disclose multiplexing the first payload and the transcoded second payload to a second transport stream.

Chen teaches multiplexing the first payload and the [transcoded] second payload to a second transport stream (Fig. 1, para. 14, para. 21-22).

It would be obvious to one of ordinary in the art at the time of invention to modify Dureau to include multiplexing the first payload and the [transcoded] second payload to a second transport stream, as taught by Chen, in order to deliver the desire payload to user's home equipments [in Dureau (Fig. 3)] so the data payload is compatible to the home equipments and therefore displaying to the user.

Dureau in view of Chen does not explicitly determining whether a protocol associated with the second payload is dissimilar from a protocol associated with the first payload.

Brooks teaches determining whether a protocol associated with the second payload is dissimilar from a protocol associated with the first payload (col. 10, line 50-col. 11, lines 33, control block (el. 450) is to determine/identify

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the different between the first payload (MPEG format) or second payload (Windows format)).

It would be obvious to one of ordinary in the art at the time of invention to modify Dureau in view of Chen to include determining whether a protocol associated with the second payload is dissimilar from a protocol associated with the first payload, as taught by Brooks, in order to avoiding the mistake of processing those payload for wrong output.

Regarding claim 4, Dureau in view of Chen discloses further comprising associating the first payload with MPEG-2 protocols and associating the second payload with AVC protocols such the second payload is transcoded to MPEG-2 protocols (Dureau, Fig. 4-6, abstract, para. 32-33, para. 35-38, para. 43-44, para. 47, AVC protocol standard can be MPEG 4 protocol, thus if the payload for MPEG 4 (second payload) is not compatible then the MPEG 4 payload will be transcoded into MPEG 2 payload (first payload) format).

Regarding claim 5, Dureau in view of Chen and in further view of Brooks further discloses associating the AVC protocols with MPEG-4 protocols (Dureau, para. 35).

Regarding claim 13, Dureau in view of Chen and in further view of Brooks further discloses associating the first transport stream with MPEG-2 protocols (Dureau, para. 35).

Regarding claim 14, Dureau in view of Chen and in further view of Brooks further discloses determining if the protocol associated with the second payload is dissimilar form the protocol associated with the first payload as a function of instructions associated with the MPEG-2 protocols of the first transport stream (Dureau, Fig. 4-6, abstract, para. 32-33, para. 35-38, para. 43-44, para. 47).

Regarding claim 15, Dureau in view of Chen and in further view of Brooks further discloses associating the first and second transport streams with MPEG-2 protocols (The video data transport streams are transcoded to the target/desire (MPEG-2) format, see Dureau, Fig. 4-6, abstract, para. 32-33, para. 35-38, para. 43-44, para. 47).

Regarding claims 29 and 32, the instant claims are met by the rejection with respect to claim 1.

3. Claims 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dureau in view of Chen and in further view of Brooks and further in view of Kadono (US 2004/0246373 A1)

Regarding claim 6, Dureau in view of Chen and in further view of Brooks discloses all limitation of claim 1.

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Dureau in view of Chen and in further view of Brooks does not explicitly disclose associating the AVC protocols with H.264 protocols.

Kadono teaches associating the AVC protocols with H.264 protocols (para. 5).

It would be obvious to one of ordinary in the art at the time of invention to modify Dureau in view of Chen and in further view of Brooks to include associating the AVC protocols with H.264 protocols, as taught by Kadono, in order to use the industry well known standardization format in picture coding method.

4. Claims 7-8, 30, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dureau in view of Chen and in further view of Brooks and further in view of Candelore (US 2003/0046686 A1).

Regarding claim 7, Dureau in view of Chen and in further view of Brooks discloses all limitation of claim 3.

Dureau in view of Chen and in further view of Brooks does not explicitly disclose decrypting conditional access (CA) encryption of the first transport stream prior to demultiplexing.

Candelore teaches disclose decrypting conditional access (CA) encryption of the first transport stream prior to demultiplexing (Fig. 2, 5, and 8, el. 272-el. 288, para. 40-41, para. 60-64, para. 84-85, para. 94).

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It would be obvious to one of ordinary in the art at the time of invention to modify Dureau in view of Chen and in further view of Brooks set top box to include decrypting conditional access (CA) encryption of the first transport stream prior to demultiplexing, as taught by Candelore, in order to decrypt the TV signal so only the person is authorized can access the TV content (para. 40-41).

Regarding claim 8, Dureau in view of Chen and in further view of Brooks and further in view of Candelore discloses decrypting the CA encryption of the first transport stream in a settop box (STB) (Candelore, Fig. 2, 5, and 8, el. 272-el. 288, para. 40-41, para. 60-64, para. 84-85, para. 94).

Regarding claim 30, Dureau in view of Chen and in further view of Brooks discloses all limitation of claim 29.

Dureau in view of Chen and in further view of Brooks does not explicitly disclose decrypting conditional access (CA) encryption of the first transport stream prior to demultiplexing.

Candelore teaches disclose prior to demultiplexing, encoding the first transport stream so as to be copy protected; and after encoding and prior to demultiplexing, decoding the first transport stream so as to no longer be copy protected (Fig. 2, 5, and 8, el. 272-el. 288, para. 40-41, para. 60-64, para. 84-85, para. 94).

It would be obvious to one of ordinary in the art at the time of invention to modify Dureau in view of Chen and in further view of Brooks set top box to

include disclose prior to demultiplexing, encoding the first transport stream so as to be copy protected; and after encoding and prior to demultiplexing, decoding the first transport stream so as to no longer be copy protected, as taught by Candelore, in order to ensure that the copy protected content is only accessed by the authorized persons (para. 40-41).

Regarding claim 33, the instant claim is analyzed with respect to claim 30.

5. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dureau in view of Chen and in further view of Brooks and further in view of Candelore and further in view of Hendricks (US 7,073,187).

Regarding claim 9, Dureau in view of Chen and in further view of Brooks and further in view of Candelore discloses all the limitation of claim 8. Dureau in view of Chen and in further view of Brooks and further in view of Candelore further discloses demultiplexing, transcoding, and multiplexing the first and second payloads in a card of the set top box (Dureau, para. 35, and 39, Fig. 4-6, abstract, para. 32-33, para. 35-38, para. 43-44, para. 47, Chen, Fig. 1, para. 14, para. 21-22, trancoding unit is circuit card in the set top box performing demultiplexing, transcoding, and multiplexing funtion).

Dureau in view of Chen and in further view of Brooks and further in view of Candelore does not explicitly discloses [demultiplexing, transcoding, and multiplexing the payloads] in a card inserted into a card slot of [the STB].

Hendricks teaches [demultiplexing, transcoding, and multiplexing the payloads] in a card inserted into a card slot of [the STB] (Fig. 52 b, col. 12, lines 31-47, col. 13, lines 18-43).

It would be obvious to one of ordinary in the art at the time of invention to modify Dureau in view of Chen and in further view of Brooks and further in view of Candelore set top box to include [demultiplexing, transcoding, and multiplexing the payloads] in a card inserted into a card slot of [the STB], as taught by Hendricks, in order to replace the card inserted to the set top box in case if it goes bad.

6. Claims 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dureau in view of Chen and in further view of Brooks and further in view of Candelore and further in view of Hendricks (US 7,073,187) and further in view of Park (5,757,909).

Regarding claim 10, Dureau in view of Chen and in further view of Brooks and further in view of Candelore and further in view of Hendricks discloses all limitation of claim 9, and further discloses decode the data stream prior to the demultiplexing, transcoding, and multiplexing (Dureau, Fig. 4, para. 6, para. 38-39, Chen, Fig. 1, para. 14 and para. 21, Hendricks, Fig. 52 b, col. 12, lines 31-47, col. 13, lines 18-43).

Dureau in view of Chen and in further view of Brooks and further in view of Candelore and further in view of Hendricks does not explicitly disclose [decoding] copy protection of the first transport stream [in the card].

Park teaches [decoding] copy protection of the first transport stream [in the card] (Fig. 6-9, col. 13, lines 1-67, col. 14, lines 21-67).

It would be obvious to one of ordinary in the art at the time of invention to modify Dureau in view of Chen and in further view of Brooks and further in view of Candelore and further in view of Hendricks to include [decoding] copy protection of the first transport stream [in the card], as taught by Park, in order to perform the illegal viewing and copy protection (col.14, lines 65-67).

7. Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dureau in view of Chen and in further view of Brooks and further in view of Candelore and further in view of Hendricks (US 7,073,187) and further in view of Park (5,757,909) and further in view of Orr (US 6,567,127 B1).

Regarding claim 11, Dureau in view of Chen and in further view of Brooks and further in view of Candelore and further in view of Hendricks and further in view of park discloses all limitations of claim 10.

Dureau in view of Chen and in further view of Brooks and further in view of Candelore and further in view of Hendricks and further in view of park does not explicitly discloses encoding copy protection to the second transport stream.

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Orr teaches encoding copy protection to the second transport stream (Fig. 1, col. 3, lines 30-63).

It would be obvious to one of ordinary in the art at the time of invention to modify Dureau in view of Chen and in further view of Brooks and further in view of Candelore and further in view of Hendricks and further in view of Park to include encoding copy protection to the second transport stream, as taught by Orr, in order to enhance the video data stream (col. 3, lines 50-52).

Regarding claim 12, Dureau in view of Chen and in further view of Brooks and further in view of Candelore and further in view of Hendricks and further in view of park and further in view of Orr discloses transmitting the copy protection encoded second transport stream from the card to the STB (Dureau, Fig. 1-4, abstract, para. 33-36, Hendricks, Fig. 52b, col. 13, lines 16-43, col. 3, lines 30-col. 4, line 3, the encoded video stream is transferred to the set top box).

8. Claims 31 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dureau in view of Chen and in further view of Brooks and in view of Candolre and further in view of Kubota (US RE38,236 E).

Regarding claim 31, Dureau in view of Chen and in further view of Brooks and in view of Candolre discloses all limitation of claim 30.

Dureau in view of Chen and in view of Candolre does not explicitly disclose after multiplexing, encoding the second transport stream so as to be

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copy protected; after multiplexing, decoding the second transport stream so as to no longer be copy protected; and after decoding the second transport stream, demultiplexing the second transport stream to recover the first payloads from the [transcoded] second payloads.

Kubota teaches after multiplexing, encoding the second transport stream so as to be copy protected (Fig. 2 and 4, el. 5, col. 5, lines 26-35);

after multiplexing, decoding the second transport stream so as to no longer be copy protected (Fig. 5 and 8, el. 12, col. 7, lines 37-43);

and after decoding the second transport stream, demultiplexing the second transport stream to recover the first payloads from the [transcoded] second payloads (Fig. 8, el. 14, col. 7, lines 37-67).

It would be obvious to one of ordinary in the art at the time of invention to modify Dureau in view of Chen and in further view of Brooks and further in view of Candelore to include after multiplexing, encoding the second transport stream so as to be copy protected; after multiplexing, decoding the second transport stream so as to no longer be copy protected; and after decoding the second transport stream, demultiplexing the second transport stream to recover the first payloads from the [transcoded] second payloads, as taught by Kubota, in order to add the security for accessing the video content so the only authorized users are allowed to access the content (abstract).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CAI CHEN whose telephone number is (571)270-5679. The examiner can normally be reached on 7:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Pendleton can be reached on 571-272-7527. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CAI CHEN/ Examiner, Art Unit 2425

/Brian T. Pendleton/ Supervisory Patent Examiner, Art Unit 2425